

# Refrigerated Dryers

The Best Dry You Can Buy!™



A-28

Models RD0020 to RD 2000

- Energy efficient cycling control system saves 30-80% over a non-cycling dryer
- Cycling prevents freezing for the heat exchanger during off peak operation
- Unit maintains a constant 38° F dew point at the outlet, despite inlet flow
- Accepts inlet air temps up to 158° F and inlet pressures up to 230 PSI
- Compact design minimizes floor space needed to install dryer

## FEATURES:

- Cycling Dryer for Energy Efficiency
- FTP Bulkhead Air Pipe Fittings
- On/Off Switch with Multi-Function Display
- Microprocessor Based Controller
- Automatic Timer Drain (w/ manual override)

## SPECIFICATIONS

- 20-2000 capacity (depends on model)
- Maximum work 230 psig
- Port sizes from ½" to 4"
- Maximum Temp: 158° F
- Pressure Dew Point: 38° F

## BENEFITS

- Air is a Constant 38° F Dew Point at Dryer
- Constant Quality of Drier Air to Your System
- Compact Size, for an Easy Fit
- Low Maintenance, Long Life Design

## APPLICATIONS

Entire shop/factory application for the elimination of water in compressed air.  
Must be used in applications where temperatures are above freezing.



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Model RD	Air Flow (1)	Nominal absorbed power (2)	Max Absorbed Power (3)	Power Supply V / Ph / Hz				Air Connection	Overall Dimensions (4) (inches)							Net Weight (4)
				115/1/60	230/1/60	230/3/60	430/3/60		A	B	C	D	E	F	G	
	scfm	kW	kW					NPT								
0020	20	0.26	0.42	x				1/2"	20.90	11.80	20.10	4.10	2.36	6.50	3.50	80
0030	30	0.26	0.42	x	•			1/2"	20.90	11.80	20.10	2.65	15.75	8.90	3.50	86
0050	50	0.36	0.53	x	•			1/2"	20.90	11.80	20.10	2.65	15.75	8.90	3.50	91
0075	75	0.50	0.60	x	•			3/4"	25.60	14.60	29.50	3.95	18.74	14.20	3.90	143
0100	100	0.64	0.70	x	x			3/4"	25.60	14.60	29.50	3.95	18.74	14.20	3.90	148
0125	125	0.97	1.10	x	x			1"	25.60	14.60	29.50	3.95	18.74	14.20	3.90	176
0150	150	0.92	1.10	x	x			1"	30.70	14.60	33.50	8.20	18.74	14.20	3.90	209

(1) In compliance with CAGI (ADF 100) / NFPA (class H); inlet air temperature 100°F. Ambient air temperature 100°F.

Inlet air pressure 100 psig. Pressure dew point from 33°F to 39°F.

(2) Absorbed power at rated operating conditions and at 115/1/60 and 460/3/60 power supply.

(3) Absorbed power at maximum limit operating conditions and at 115/1/60 and 430/3/60 power supply.

(4) The dimension and weight refer to the version with a timed drain, not with the zero air-loss drain.

• Available on request. Requires up to 12 week lead time on initial orders. Consult factory.

**Maximum operating ambient temperature:** RD 0020 – RD 1220: 115°F. RD 1600 – RD 2000: 110°F. Consult RTi for application with higher ambient temperature.

**Minimum operating ambient temperature:** RD 0020 – RD 2000: 41°F. Maximum inlet air pressure: 232 psig. Consult RTi for application with higher pressure.

**Maximum inlet air temperature:** RD 0020 – RD 1220: 158°F. RD 1600 – RD 2000: 149°F.

A model selection, sizing and energy savings calculating software is available to properly select a dryer based on your specific operating parameters. Use the correction factors listed below only as a guide and quick reference.

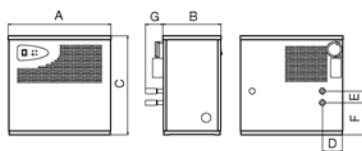
**CAPACITY** correction factors (indicative values): **CAPACITY(scfm) = RATED VALUE x P1 x T2 x T3 x T4.**

WORKING AIR PRESSURE	PSIG	50	75	100	125	150	232
	P1	0.77	0.90	1.00	1.07	1.12	1.23

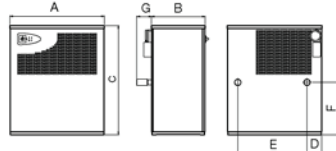
DEW POINT	° F	38	40	45	50
	T2	0.77	0.90	1.00	1.07

AMBIENT TEMP	° F	90	100	110	115
	T3	1.07	1.00	0.93	0.88

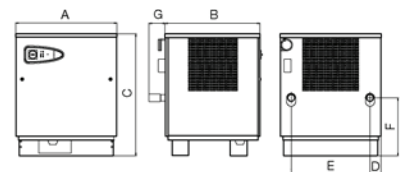
WORKING INLET AIR TEMP	° F	90	100	110	120	130	149	158
	T4	1.23	1.00	0.81	0.68	0.61	0.49	0.44



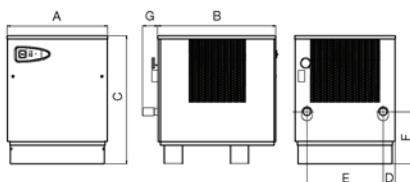
RD 0020



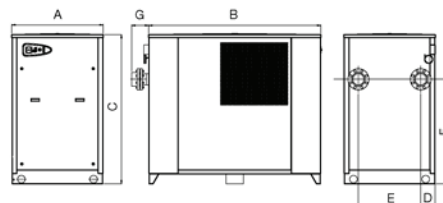
RD 0030 - 0175



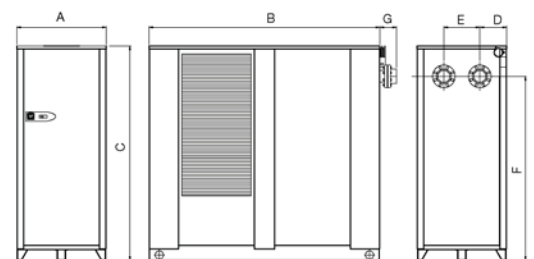
RD 0200 - 0325



RD 0425 - 0800



RD 1000 - 1220



RD 1600 - 2000